

BUNGA PRIMARY SCHOOL

TERM ONE TOPICAL TEST, SET 3

PRIMARY SEVEN MATHEMATICS

Name:..... Stream:.....

SECTION A (40 MARKS)

1. Work out the square of $\frac{4}{5}$?

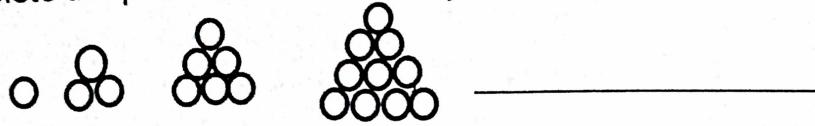
A	
B	
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2. Express 8.54×10^3 as a single numeral

3. The product of two numbers is 63. If one of the numbers is 7, find the second number.

4. Work out the HCF of 24 and 36.

5. Complete the pattern below correctly.



6. Work out the square root of 256.

7. Express 0.000649 in standard form.

8. Simplify $x^8 \div x^3$

9. Work out the least number of mangoes that can be shared by either 16 girls or 20 girls leaving no remainder.

10. Express 96 as product of its prime factors.
11. Without dividing, show that 648 is divisible by 9.
12. Circle all the composite number from the list below.
19, 47, 91, 97, 49
13. Find the sum of the next two number in the sequence below;
81, 64, 49, 36, ___, ___
14. Find the number that has been prime factorized to give $2^2 \times 5^1 \times 3^2$

15. Use distributive property to work out
 $(49 \times 9) + (9 \times 51)$

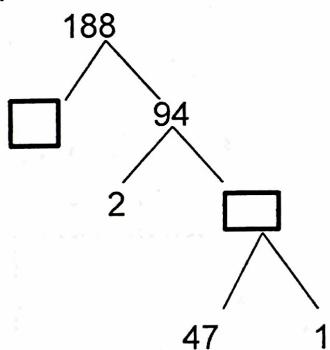
16. Work out the cube root of 64.

17. Solve for P: $3^P \times 3^2 = 3^5$

18. The square root of k is 9. Find the value of k.

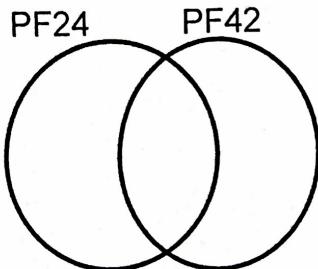
19. The LCM of two numbers is 48 and their GCF is 4. If one of the numbers 12, find the second number.

20. Complete the prime factorization below correctly.

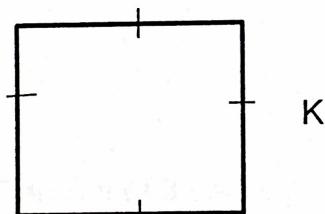


SECTION B (60 MARKS)

21. Represent the prime factors 24 and 42 on the Venn diagram below
(5 marks)



22. The figure below is a square with an area of 144m^2 . Use it to answer the questions that follow.



(a) Find the value of K (3marks)

(b) If a house fly moves round the figure above twice, calculate the distance it will cover. (2 marks)

23. Two girls, Suzan and Hannah visit the sickbay at intervals of 30 minutes and 50 minutes respectively. If they first visited the sickbay together at 7:00am.

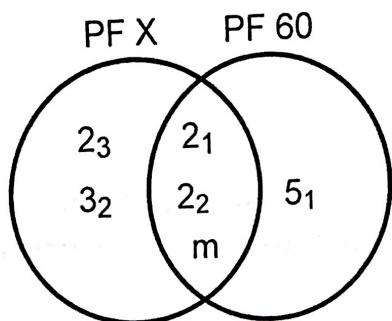
(a) After how many hours will they take to visit the sickbay together again? (3 marks)

(b) At what time will they visit the sickbay together again ? (2 marks)

24. (a) The sum of 3 consecutive even numbers is 36. Find the numbers (4 marks)

(b) Work out their range (1mark)

25. Study the Venn diagram below and use it to answer the questions that follow.



(a) Find the value of m.

(2 marks)

(b) Find the value of X

(2 marks)

(c) Work out the GCF of X and 60

(1 mark)

26. Given that numbers below; 40, 41, 42, 43, 45, 47, 48, 49.

(a) List all the **prime numbers** from the list above

(2 marks)

(b) List all the **composite numbers** from the given list (2 marks)

(c) List all the multiples of 3 from the given list. (2 marks)

27. In the grid below, the sum of the numbers vertically, horizontally and diagonal is the same. Use it to answer the question that follow.

21	q	23
<u>p</u>	24	<u>w</u>
25	<u>r</u>	27

Find the value of ;

(i) p

(ii) q

(iii) r

(iv) w

28. A family used 96 litres of water in 3 days. If it used 2 more litres of water than each previous day,

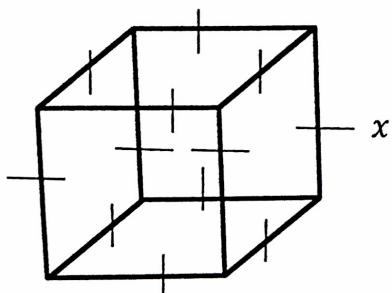
(a) How many litres of water were used on the first day? (3 marks)

(b) Express the amount of water used on the second day in Roman numerals. (2 marks)

29. (a) Prime factorise 144 and give your answer in set notation. (2 marks)

(b) Given that $M = \{2_1, 2_2, 3_1, 5_1\}$. Find the value of M (2marks)

30. The figure below holds a capacity of one litre. Use it to answer the questions that follow.



(a) Find the value of x (3 marks)

(b) Work out the total surface area of the figure above. (2 marks)

31. The sum of 3 consecutive odd numbers is 27. If the largest number is m ,

(a) Find the numbers (4 marks)

(b) Work out their range.

(1 mark)

32. (a) Express 625 as power of 5.

(2marks)

(b) Solve: $3^{2m} \div 27 = 243$

(3 marks)